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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/088,306	03/18/2002	Hiromoto Ohno	Q60716	2926	
23373 7	590 05/17/2005		EXAMINER		
SUGHRUE MION, PLLC			O MALLEY, KATHRYN S		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20037	·	3749	3749	
			DATE MAILED, OF 11700	•	

DATE MAILED: 05/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/088,306	OHNO ET AL.			
		Examiner	Art Unit			
<u> </u>		Kathryn S. O'Malley	3749			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 19 Ja	anuary 2005.				
2a)⊠	This action is FINAL . 2b) This	action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠	☑ Claim(s) <u>1-6,8-18 and 20-22</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
	Claim(s) <u>1-6, 8-18, and 20-22</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicati	ion Papers					
9)[The specification is objected to by the Examine	r.				
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority (under 35 U.S.C. § 119					
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents	s have been received.				
	2. Certified copies of the priority documents					
	3. Copies of the certified copies of the prior	•	ed in this National Stage			
* 5	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
·	see the attached detailed Office action for a list	or the certified copies not receive	·u.			
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>6/25/02</u> . 6) Other:						

Application/Control Number: 10/088,306 Page 2

Art Unit: 3749

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 19 January 2005 have been fully considered but they are not persuasive.

2. Applicant argues that the volume ratio ranges presently claimed would not have been obvious in view of the teachings of Hsiung et al. Examiner respectfully disagrees. Examiner agrees that while Hsiung et al. teaches a gas comprising the elements presently claimed as well as some volume ratios within the presently claimed ranges, Hsiung et al. is silent about other volume ratios, in particular the ratio of elements with respect to SF₆. However, as applicant has provided no evidence of the criticality or unexpected results due to the claimed ranges, and in fact states in page 12, lines 7-18 of the present disclosure that, "the mixing ratio for the gas components... is not particularly limited. However, the ratio is usually...," Examiner holds that the ranges presently claimed would have been obvious in view of Hsiung et al.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 8-18, and 20-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hsiung et al.

Application/Control Number: 10/088,306

Art Unit: 3749

3. Hsiung et al. teaches a gas comprising SF₆, F₂, NF₃, O₂, N₂, and CF₄. Note column 2, lines 61-64 and column 3, lines 52-60. Hsiung et al. does not specifically teach a gas having the volume ratio ranges presently claimed. However, Hsiung et al. does teach gas mixtures having volume ratios between NF₃ and N₂ that fall within the range presently claimed (note column 5, lines 21, 22, and 46), suggesting that gas mixtures having the ranges presently claimed could reasonably be assumed to fall within the "mixtures thereof" taught by Hsiung et al. in column 2, line 64. Therefore, absent a showing of criticality or unexpected results, such claim limitations fail to constitute a patentable distinction over the prior art of record.

Page 3

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 10/088,306

Art Unit: 3749

27.40

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kathryn S. O'Malley whose telephone number is

(571)272-4879. The examiner can normally be reached on M-F (9:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ira Lazarus can be reached on (703)308-1935. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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KSO

UPERVISORY PATENT EXAMINER

Page 4

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